

Op/2661  
AF  
BD  
3-06-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: <b>William McFarland</b>	Atty. Docket No. 073169-0269521 ATH-025(U) <b>RECEIVED</b> <b>FEB 26 2003</b>
Serial No. <b>09/839,565</b> Filed: <b>April 20, 2001</b>	Examiner: Unassigned Art Unit: 2661 <b>Technology Center 2600</b>
<b>For: MULTI-CARRIER COMMUNICATION SYSTEMS EMPLOYING VARIABLE SYMBOL RATES AND NUMBER OF CARRIERS</b>	<b>CERTIFICATE OF MAILING</b> <i>I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail addressed to the Assistant Commissioner of Patents, Washington, D.C. 20231 on February 21, 2003</i> Signed <u>Deanna Costen</u> Deanna Costen

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner of Patents  
Washington, DC 20231

Sir:

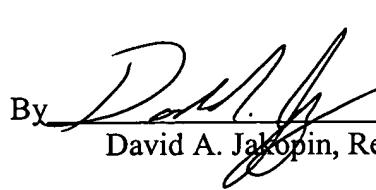
Enclosed herewith is Form PTO-1449 and the references cited therein.

This IDS is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to comply fully.

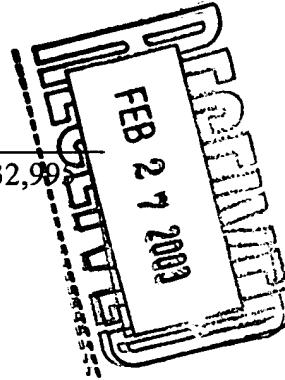
Contingent Petition Under Rule 97(d): Should a Final Rejection or Notice of Allowance issue with a mailing date which precedes or is the same as the filing date of this IDS, please consider this a Petition under Rule 97(d), charge the petition fee to our Deposit Account No. 03-3975 under Order No. 073169-0269521 and proceed to consider this IDS under Rule 97(d).

Consideration of the foregoing and enclosures plus the return of a copy of the enclosed Form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

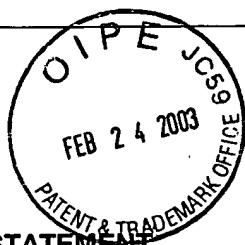
Respectfully submitted  
PILLSBURY WINTHROP LLP

By   
David A. Jakopin, Reg. No. 32,992

1600 Tysons Boulevard  
McLean, Virginia 22102  
Tel: 650-233-4790  
Fax: 650-233-4545



FORM PTO-1449 (modified)  
 To: U.S. Department of Commerce  
 (PW FORM PAT-1449)  
 Patent and Trademark Office



**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Date: February 21, 2003

Page 1 of 1

Atty. Dkt. No.	M#	Client Ref.
		073169-0269521 IATH-0269521
		RECEIVED
		FEB 26 2003
		Appln. No.: 09/839,565
		Filing Date: April 20, 2001 Technology Center 2600
		Examiner: Unassigned Group Art Unit: 2661

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
AR	5,870,427	02/09/99	Tiedemann, Jr. et al.	375	216	
BR	5,499,236	03/12/96	Giallorenzi et al.	370	18	
CR	5,261,118	11/09/93	Vanderspool, II et al.	455	51.2	
DR	5,268,933	12/07/93	Averbuch	375	107	
ER	5,506,867	04/09/96	Kotzin et al.	375	220	
FR	5,561,701	10/01/96	Ichikawa	379	57	
GR	5,920,557	07/06/99	Hirata	370	350	
HR	5,802,044	09/01/98	Baum et al.	370	330	
IR	6,275,518	08/14/01	Takahashi et al.	375	135	
JR						
KR						
LR						

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
MR	GB 2 277 232	10/19/94	United Kingdom	van den Heuvel et al.				
NR	WO 99/49587	09/30/99	PCT	Mousley				
OR								
PR								
QR								

**OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

RR	Meyr et al., <i>Digital Communication Receivers</i> , Chapter 5: "Synthesis of Synchronization Algorithms" (John Wiley and Sons, 1998, New York)		
SR	Meyr et al., <i>Digital Communication Receivers</i> , Chapter 10: "DSP System Implementation" (John Wiley and Sons, 1998, New York)		
TR	Mueller et al., "Timing recovery in digital synchronous data receivers" ( <i>IEEE Trans. Communications</i> , Vol. COM-24, pp. 516-531, May 1976)		
UR	Sklar, <i>Digital Communications: Fundamentals and Applications</i> , Chapter 8: "Synchronization in the Context of Digital Communications" (Prentice Hall, 1988, New Jersey)		
VR	Verdu, <i>Multiuser Detection</i> , Chapter 6: "Nondecorrelating Linear Multiuser Detection" (Cambridge University Press, 1998)		
WR	Verdu, <i>Multiuser Detection</i> , Chapter 7: "Decision-Driven Multiuser Detectors" (Cambridge University Press, 1998)		
XR	Honig et al., "Blind Adaptive Multiuser Detection" ( <i>IEEE Trans. on Information Theory</i> , pp. 944-961, Vol. 41, No. 4, July 1995)		
YR	Le Floch et al., "Coded Orthogonal Frequency Division Multiplex" ( <i>IEEE Proceedings</i> , pp. 982-996, Vol. 83, No. 6, June 1995)		

Examiner

Date Considered:

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.